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SEQUENCE LISTING

<110> Ganymed Pharmaceuticals AG

Sahin, Ugur

Tureci, Özlem

Kosłowski, Michael

<120> Genetic Products Differentially Expressed In Tumors And The Use Thereof

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<150> PCT/EP03/13091

<151> 2003-11-22

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Val Phe Val Val Cys Phe Leu Pro Leu His Val Gly Leu Thr Val Arg
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Leu Ala Val Gly Trp Asn Ala Cys Ala Leu Leu Glu Thr Ile Arg Arg
245 250 255

Ala Leu Tyr Ile Thr Ser Lys Leu Ser Asp Ala Asn Cys Cys Leu Asp
260 265 270

Ala Ile Cys Tyr Tyr Tyr Met Ala Lys Glu Phe Gln Glu Ala Ser Ala
275 280 285

Leu Ala Val Ala Pro Arg Ala Lys Ala His Lys Ser Gln Asp Ser Leu
290 295 300

Cys Val Thr Leu Ala
305

<210> 10

<211> 394

<212> PRT

<213> Homo sapiens

<400> 10

Met Thr Ala Gly Arg Ser Gln Glu Arg Arg Ala Gln Glu Met Gly Arg
1 5 10 15

Gly Ser Val Gln Gly Leu Asp Leu Lys Gly Asp Leu Glu Phe Phe Thr
20 25 30

Ala Pro Met Leu Ser Leu Arg Ser Phe Val Phe Val Gly Val Gly Ser
35 40 45

Gly Leu Thr Ser Ser His Ile Pro Ala Gln Arg Trp Ala Glu Trp Gly
50 55 60

Gln Cys Leu Ala Pro Pro Ala Arg Ser Leu Leu Thr Ser Gly Ser Leu
65 70 75 80

Cys Cys Pro Arg Thr Met Asn Gly Thr Tyr Asn Thr Cys Gly Ser Ser
85 90 95

Asp Leu Thr Trp Pro Pro Ala Ile Lys Leu Gly Phe Tyr Ala Tyr Leu
100 105 110

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Gly Val Leu Leu Val Leu Gly Leu Leu Leu Asn Ser Leu Ala Leu Trp
115 120 125

Val Phe Cys Cys Arg Met Gln Gln Trp Thr Glu Thr Arg Ile Tyr Met
130 135 140

Thr Asn Leu Ala Val Ala Asp Leu Cys Leu Leu Cys Thr Leu Pro Phe
145 150 155 160

Val Leu His Ser Leu Arg Asp Thr Ser Asp Thr Pro Leu Cys Gln Leu
165 170 175

Ser Gln Gly Ile Tyr Leu Thr Asn Arg Tyr Met Ser Ile Ser Leu Val
180 185 190

Thr Ala Ile Ala Val Asp Arg Tyr Val Ala Val Arg His Pro Leu Arg
195 200 205

Ala Arg Gly Leu Arg Ser Pro Arg Gln Ala Ala Ala Val Cys Ala Val
210 215 220

Leu Trp Val Leu Val Ile Gly Ser Leu Val Ala Arg Trp Leu Leu Gly
225 230 235 240

Ile Gln Glu Gly Gly Phe Cys Phe Arg Ser Thr Arg His Asn Phe Asn
245 250 255

Ser Met Ala Phe Pro Leu Leu Gly Phe Tyr Leu Pro Leu Ala Val Val
260 265 270

Val Phe Cys Ser Leu Lys Val Val Thr Ala Leu Ala Gln Arg Pro Pro
275 280 285

Thr Asp Val Gly Gln Ala Glu Ala Thr Arg Lys Ala Ala Arg Met Val
290 295 300

Trp Ala Asn Leu Leu Val Phe Val Val Cys Phe Leu Pro Leu His Val
305 310 315 320

Gly Leu Thr Val Arg Leu Ala Val Gly Trp Asn Ala Cys Ala Leu Leu
325 330 335

Glu Thr Ile Arg Arg Ala Leu Tyr Ile Thr Ser Lys Leu Ser Asp Ala
340 345 350

Asn Cys Cys Leu Asp Ala Ile Cys Tyr Tyr Tyr Met Ala Lys Glu Phe
Page 11

355 GMD-102.1P US.txt 360 365

Gln Glu Ala Ser Ala Leu Ala Val Ala Pro Ser Ala Lys Ala His Lys
370 375 380

Ser Gln Asp Ser Leu Cys Val Thr Leu Ala
385 390

<210> 11

<211> 1073

<212> PRT

<213> Homo sapiens

<400> 11

Met Lys Thr Leu Leu Leu Asp Leu Ala Leu Trp Ser Leu Leu Phe Gln
1 5 10 15

Pro Gly Trp Leu Ser Phe Ser Ser Gln Val Ser Gln Asn Cys His Asn
20 25 30

Gly Ser Tyr Glu Ile Ser Val Leu Met Met Gly Asn Ser Ala Phe Ala
35 40 45

Glu Pro Leu Lys Asn Leu Glu Asp Ala Val Asn Glu Gly Leu Glu Ile
50 55 60

Val Arg Gly Arg Leu Gln Asn Ala Gly Leu Asn Val Thr Val Asn Ala
65 70 75 80

Thr Phe Met Tyr Ser Asp Gly Leu Ile His Asn Ser Gly Asp Cys Arg
85 90 95

Ser Ser Thr Cys Glu Gly Leu Asp Leu Leu Arg Lys Ile Ser Asn Ala
100 105 110

Gln Arg Met Gly Cys Val Leu Ile Gly Pro Ser Cys Thr Tyr Ser Thr
115 120 125

Phe Gln Met Tyr Leu Asp Thr Glu Leu Ser Tyr Pro Met Ile Ser Ala
130 135 140

Gly Ser Phe Gly Leu Ser Cys Asp Tyr Lys Glu Thr Leu Thr Arg Leu
145 150 155 160

GMD-102.1P US.txt

Met Ser Pro Ala Arg Lys Leu Met Tyr Phe Leu Val Asn Phe Trp Lys
 165 170 175
 Thr Asn Asp Leu Pro Phe Lys Thr Tyr Ser Trp Ser Thr Ser Tyr Val
 180 185 190
 Tyr Lys Asn Gly Thr Glu Thr Glu Asp Cys Phe Trp Tyr Leu Asn Ala
 195 200 205
 Leu Glu Ala Ser Val Ser Tyr Phe Ser His Glu Leu Gly Phe Lys Val
 210 215 220
 Val Leu Arg Gln Asp Lys Glu Phe Gln Asp Ile Leu Met Asp His Asn
 225 230 235 240
 Arg Lys Ser Asn Val Ile Ile Met Cys Gly Gly Pro Glu Phe Leu Tyr
 245 250 255
 Lys Leu Lys Gly Asp Arg Ala Val Ala Glu Asp Ile Val Ile Ile Leu
 260 265 270
 Val Asp Leu Phe Asn Asp Gln Tyr Leu Glu Asp Asn Val Thr Ala Pro
 275 280 285
 Asp Tyr Met Lys Asn Val Leu Val Leu Thr Leu Ser Pro Gly Asn Ser
 290 295 300
 Leu Leu Asn Ser Ser Phe Ser Arg Asn Leu Ser Pro Thr Lys Arg Asp
 305 310 315 320
 Phe Ala Leu Ala Tyr Leu Asn Gly Ile Leu Leu Phe Gly His Met Leu
 325 330 335
 Lys Ile Phe Leu Glu Asn Gly Glu Asn Ile Thr Thr Pro Lys Phe Ala
 340 345 350
 His Ala Phe Arg Asn Leu Thr Phe Glu Gly Tyr Asp Gly Pro Val Thr
 355 360 365
 Leu Asp Asp Trp Gly Asp Val Asp Ser Thr Met Val Leu Leu Tyr Thr
 370 375 380
 Ser Val Asp Thr Lys Lys Tyr Lys Val Leu Leu Thr Tyr Asp Thr His
 385 390 395 400
 Val Asn Lys Thr Tyr Pro Val Asp Met Ser Pro Thr Phe Thr Trp Lys
 405 410 415

GMD-102.1P US.txt

Asn Ser Lys Leu Pro Asn Asp Ile Thr Gly Arg Gly Pro Gln Ile Leu
 420 425 430
 Met Ile Ala Val Phe Thr Leu Thr Gly Ala Val Val Leu Leu Leu
 435 440 445
 Val Ala Leu Leu Met Leu Arg Lys Tyr Arg Lys Asp Tyr Glu Leu Arg
 450 455 460
 Gln Lys Lys Trp Ser His Ile Pro Pro Glu Asn Ile Phe Pro Leu Glu
 465 470 475 480
 Thr Asn Glu Thr Asn His Val Ser Leu Lys Ile Asp Asp Asp Lys Arg
 485 490 495
 Arg Asp Thr Ile Gln Arg Leu Arg Gln Cys Lys Tyr Asp Lys Lys Arg
 500 505 510
 Val Ile Leu Lys Asp Leu Lys His Asn Asp Gly Asn Phe Thr Glu Lys
 515 520 525
 Gln Lys Ile Glu Leu Asn Lys Leu Leu Gln Ile Asp Tyr Tyr Asn Leu
 530 535 540
 Thr Lys Phe Tyr Gly Thr Val Lys Leu Asp Thr Met Ile Phe Gly Val
 545 550 555 560
 Ile Glu Tyr Cys Glu Arg Gly Ser Leu Arg Glu Val Leu Asn Asp Thr
 565 570 575
 Ile Ser Tyr Pro Asp Gly Thr Phe Met Asp Trp Glu Phe Lys Ile Ser
 580 585 590
 Val Leu Tyr Asp Ile Ala Lys Gly Met Ser Tyr Leu His Ser Ser Lys
 595 600 605
 Thr Glu Val His Gly Arg Leu Lys Ser Thr Asn Cys Val Val Asp Ser
 610 615 620
 Arg Met Val Val Lys Ile Thr Asp Phe Gly Cys Asn Ser Ile Leu Pro
 625 630 635 640
 Pro Lys Lys Asp Leu Trp Thr Ala Pro Glu His Leu Arg Gln Ala Asn
 645 650 655
 Ile Ser Gln Lys Gly Asp Val Tyr Ser Tyr Gly Ile Ile Ala Gln Glu
 660 665 670

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Ile Ile Leu Arg Lys Glu Thr Phe Tyr Thr Leu Ser Cys Arg Asp Arg
675 680 685

Asn Glu Lys Ile Phe Arg Val Glu Asn Ser Asn Gly Met Lys Pro Phe
690 695 700

Arg Pro Asp Leu Phe Leu Glu Thr Ala Glu Glu Lys Glu Leu Glu Val
705 710 715 720

Tyr Leu Leu Val Lys Asn Cys Trp Glu Glu Asp Pro Glu Lys Arg Pro
725 730 735

Asp Phe Lys Lys Ile Glu Thr Thr Leu Ala Lys Ile Phe Gly Leu Phe
740 745 750

His Asp Gln Lys Asn Glu Ser Tyr Met Asp Thr Leu Ile Arg Arg Leu
755 760 765

Gln Leu Tyr Ser Arg Asn Leu Glu His Leu Val Glu Glu Arg Thr Gln
770 775 780

Leu Tyr Lys Ala Glu Arg Asp Arg Ala Asp Arg Leu Asn Phe Met Leu
785 790 795 800

Leu Pro Arg Leu Val Val Lys Ser Leu Lys Glu Lys Gly Phe Val Glu
805 810 815

Pro Glu Leu Tyr Glu Glu Val Thr Ile Tyr Phe Ser Asp Ile Val Gly
820 825 830

Phe Thr Thr Ile Cys Lys Tyr Ser Thr Pro Met Glu Val Val Asp Met
835 840 845

Leu Asn Asp Ile Tyr Lys Ser Phe Asp His Ile Val Asp His His Asp
850 855 860

Val Tyr Lys Val Glu Thr Ile Gly Asp Ala Tyr Met Val Ala Ser Gly
865 870 875 880

Leu Pro Lys Arg Asn Gly Asn Arg His Ala Ile Asp Ile Ala Lys Met
885 890 895

Ala Leu Glu Ile Leu Ser Phe Met Gly Thr Phe Glu Leu Glu His Leu
900 905 910

Pro Gly Leu Pro Ile Trp Ile Arg Ile Gly Val His Ser Gly Pro Cys

915

920

Ala Ala Gly Val Val Gly Ile Lys Met Pro Arg Tyr Cys Leu Phe Gly
930 935 940

Asp Thr Val Asn Thr Ala Ser Arg Met Glu Ser Thr Gly Leu Pro Leu
945 950 955 960

Arg Ile His Val Ser Gly Ser Thr Ile Ala Ile Leu Lys Arg Thr Glu
965 970 975

Cys Gln Phe Leu Tyr Glu Val Arg Gly Glu Thr Tyr Leu Lys Gly Arg
980 985 990

Gly Asn Glu Thr Thr Tyr Trp Leu Thr Gly Met Lys Asp Gln Lys Phe
995 1000 1005

Asn Leu Pro Thr Pro Pro Thr Val Glu Asn Gln Gln Arg Leu Gln
1010 1015 1020

Ala Glu Phe Ser Asp Met Ile Ala Asn Ser Leu Gln Lys Arg Gln
1025 1030 1035

Ala Ala Gly Ile Arg Ser Gln Lys Pro Arg Arg Val Ala Ser Tyr
1040 1045 1050

Lys Lys Gly Thr Leu Glu Tyr Leu Gln Leu Asn Thr Thr Asp Lys
1055 1060 1065

Glu Ser Thr Tyr Phe
1070

<210> 12

<211> 111

<212> PRT

<213> Homo sapiens

<400> 12

Met Lys Thr Leu Leu Leu Asp Leu Ala Leu Trp Ser Leu Leu Phe Gln
1 5 10 15

Pro Gly Trp Leu Ser Phe Ser Ser Gln Val Ser Gln Asn Cys His Asn
20 25 30

GMD-102.1P US.txt

Gly Ser Tyr Glu Ile Ser Val Leu Met Met Gly Asn Ser Ala Phe Ala
35 40 45

Glu Pro Leu Lys Asn Leu Glu Asp Ala Val Asn Glu Gly Leu Glu Ile
50 55 60

Val Arg Gly Arg Leu Gln Asn Ala Gly Leu Asn Val Thr Val Asn Ala
65 70 75 80

Thr Phe Met Tyr Ser Asp Gly Leu Ile His Asn Ser Gly Asp Cys Arg
85 90 95

Ser Ser Thr Cys Glu Gly Leu Asp Leu Leu Arg Lys Ile Ser Pro
100 105 110

<210> 13

<211> 258

<212> PRT

<213> Homo sapiens

<400> 13

Met Lys Thr Leu Leu Leu Asp Leu Ala Leu Trp Ser Leu Leu Phe Gln
1 5 10 15

Pro Gly Trp Leu Ser Phe Ser Ser Gln Val Ser Gln Asn Cys His Asn
20 25 30

Gly Ser Tyr Glu Ile Ser Val Leu Met Met Gly Asn Ser Ala Phe Ala
35 40 45

Glu Pro Leu Lys Asn Leu Glu Asp Ala Val Asn Glu Gly Leu Glu Ile
50 55 60

Val Arg Gly Arg Leu Gln Asn Ala Gly Leu Asn Val Thr Val Asn Ala
65 70 75 80

Thr Phe Met Tyr Ser Asp Gly Leu Ile His Asn Ser Gly Asp Cys Arg
85 90 95

Ser Ser Thr Cys Glu Gly Leu Asp Leu Leu Arg Lys Ile Ser Asn Ala
100 105 110

Gln Arg Met Gly Cys Val Leu Ile Gly Pro Ser Cys Thr Tyr Ser Thr
115 120 125

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Phe Gln Met Tyr Leu Asp Thr Glu Leu Ser Tyr Pro Met Ile Ser Ala
130 135 140

Gly Ser Phe Gly Leu Ser Cys Asp Tyr Lys Glu Thr Leu Thr Arg Leu
145 150 155 160

Met Ser Pro Ala Arg Lys Leu Met Tyr Phe Leu Val Asn Phe Trp Lys
165 170 175

Thr Asn Asp Leu Pro Phe Lys Thr Tyr Ser Trp Ser Thr Ser Tyr Val
180 185 190

Tyr Lys Asn Gly Thr Glu Thr Glu Asp Cys Phe Trp Tyr Leu Asn Ala
195 200 205

Leu Glu Ala Ser Val Ser Tyr Phe Ser His Glu Leu Gly Phe Lys Val
210 215 220

Val Leu Arg Gln Asp Lys Glu Phe Gln Asp Ile Leu Met Asp His Asn
225 230 235 240

Arg Lys Ser Asn Val Thr Ser Thr Trp Arg Thr Met Ser Gln Pro Leu
245 250 255

Thr Ile

<210> 14

<211> 1070

<212> PRT

<213> Homo sapiens

<400> 14

Met Lys Thr Leu Leu Leu Asp Leu Ala Leu Trp Ser Leu Leu Phe Gln
1 5 10 15

Pro Gly Trp Leu Ser Phe Ser Ser Gln Val Ser Gln Asn Cys His Asn
20 25 30

Gly Ser Tyr Glu Ile Ser Val Leu Met Met Gly Asn Ser Ala Phe Ala
35 40 45

Glu Pro Leu Lys Asn Leu Glu Asp Ala Val Asn Glu Gly Leu Glu Ile
50 55 60

GMD-102.1P US.txt

Val Arg Gly Arg Leu Gln Asn Ala Gly Leu Asn Val Thr Val Asn Ala
 65 70 75 80
 Thr Phe Met Tyr Ser Asp Gly Leu Ile His Asn Ser Gly Asp Cys Arg
 85 90 95
 Ser Ser Thr Cys Glu Gly Leu Asp Leu Arg Lys Ile Ser Asn Ala
 100 105 110
 Gln Arg Met Gly Cys Val Leu Ile Gly Pro Ser Cys Thr Tyr Ser Thr
 115 120 125
 Phe Gln Met Tyr Leu Asp Thr Glu Leu Ser Tyr Pro Met Ile Ser Ala
 130 135 140
 Gly Ser Phe Gly Leu Ser Cys Asp Tyr Lys Glu Thr Leu Thr Arg Leu
 145 150 155 160
 Met Ser Pro Ala Arg Lys Leu Met Tyr Phe Leu Val Asn Phe Trp Lys
 165 170 175
 Thr Asn Asp Leu Pro Phe Lys Thr Tyr Ser Trp Ser Thr Ser Tyr Val
 180 185 190
 Tyr Lys Asn Gly Thr Glu Thr Glu Asp Cys Phe Trp Tyr Leu Asn Ala
 195 200 205
 Leu Glu Ala Ser Val Ser Tyr Phe Ser His Glu Leu Gly Phe Lys Val
 210 215 220
 Val Leu Arg Gln Asp Lys Glu Phe Gln Asp Ile Leu Met Asp His Asn
 225 230 235 240
 Arg Lys Ser Asn Val Ile Ile Met Cys Gly Gly Pro Glu Phe Leu Tyr
 245 250 255
 Lys Leu Lys Gly Asp Arg Ala Val Ala Glu Asp Ile Val Ile Ile Leu
 260 265 270
 Val Asp Leu Phe Asn Asp Gln Tyr Leu Glu Asp Asn Val Thr Ala Pro
 275 280 285
 Asp Tyr Met Lys Asn Val Leu Val Leu Thr Leu Ser Pro Gly Asn Ser
 290 295 300
 Leu Leu Asn Ser Ser Phe Ser Arg Asn Leu Ser Pro Thr Lys Arg Asp
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305		310		315		320									
Phe	Ala	Leu	Ala	Tyr 325	Leu	Asn	Gly	Ile	Leu 330	Leu	Phe	Gly	His	Met 335	Leu
Lys	Ile	Phe	Leu 340	Glu	Asn	Gly	Glu	Asn 345	Ile	Thr	Thr	Pro	Lys 350	Phe	Ala
His	Ala	Phe 355	Arg	Asn	Leu	Thr	Phe 360	Glu	Gly	Tyr	Asp	Gly 365	Pro	Val	Thr
Leu	Asp 370	Asp	Trp	Gly	Asp	Val 375	Asp	Ser	Thr	Met	Val 380	Leu	Leu	Tyr	Thr
Ser 385	Val	Asp	Thr	Lys	Lys 390	Tyr	Lys	Val	Leu	Leu 395	Thr	Tyr	Asp	Thr	His 400
Val	Asn	Lys	Thr	Tyr 405	Pro	Val	Asp	Met	Ser 410	Pro	Thr	Phe	Thr	Trp 415	Lys
Asn	Ser	Lys	Leu 420	Pro	Asn	Asp	Ile	Thr 425	Gly	Arg	Gly	Pro	Gln 430	Ile	Leu
Met	Ile	Ala 435	Val	Phe	Thr	Leu	Thr 440	Gly	Ala	Val	Val	Leu 445	Leu	Leu	Leu
Val	Ala 450	Leu	Leu	Met	Leu	Arg 455	Lys	Tyr	Arg	Lys	Asp 460	Tyr	Glu	Leu	Arg
Gln 465	Lys	Lys	Trp	Ser	His 470	Ile	Pro	Pro	Glu	Asn 475	Ile	Phe	Pro	Leu	Glu 480
Thr	Asn	Glu	Thr	Asn 485	His	Val	Ser	Leu	Lys 490	Ile	Asp	Asp	Asp	Lys 495	Arg
Arg	Asp	Thr	Ile 500	Gln	Arg	Leu	Arg	Gln 505	Cys	Lys	Tyr	Asp	Lys 510	Lys	Arg
Val	Ile	Leu 515	Lys	Asp	Leu	Lys	His 520	Asn	Asp	Gly	Asn	Phe 525	Thr	Glu	Lys
Gln 530	Lys	Ile	Glu	Leu	Asn	Lys 535	Ile	Asp	Tyr	Tyr	Asn 540	Leu	Thr	Lys	Phe
Tyr 545	Gly	Thr	Val	Lys	Leu 550	Asp	Thr	Met	Ile	Phe 555	Gly	Val	Ile	Glu	Tyr 560

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Cys Glu Arg Gly Ser₅₆₅ Leu Arg Glu Val₅₇₀ Leu Asn Asp Thr Ile Ser₅₇₅ Tyr
 Pro Asp Gly Thr₅₈₀ Phe Met Asp Trp Glu₅₈₅ Phe Lys Ile Ser Val₅₉₀ Leu Tyr
 Asp Ile Ala₅₉₅ Lys Gly Met Ser Tyr₆₀₀ Leu His Ser Ser Lys₆₀₅ Thr Glu Val
 His Gly Arg Leu Lys Ser Thr₆₁₅ Asn Cys Val Val Asp₆₂₀ Ser Arg Met Val
 Val₆₂₅ Lys Ile Thr Asp Phe₆₃₀ Gly Cys Asn Ser Ile₆₃₅ Leu Pro Pro Lys Lys₆₄₀
 Asp Leu Trp Thr Ala₆₄₅ Pro Glu His Leu Arg₆₅₀ Gln Ala Asn Ile Ser₆₅₅ Gln
 Lys Gly Asp Val₆₆₀ Tyr Ser Tyr Gly Ile₆₆₅ Ile Ala Gln Glu Ile₆₇₀ Ile Leu
 Arg Lys Glu Thr Phe Tyr Thr Leu₆₈₀ Ser Cys Arg Asp Arg₆₈₅ Asn Glu Lys
 Ile Phe Arg Val Glu Asn Ser₆₉₅ Asn Gly Met Lys Pro₇₀₀ Phe Arg Pro Asp
 Leu₇₀₅ Phe Leu Glu Thr Ala₇₁₀ Glu Glu Lys Glu Leu₇₁₅ Glu Val Tyr Leu Leu₇₂₀
 Val Lys Asn Cys Trp₇₂₅ Glu Glu Asp Pro Glu₇₃₀ Lys Arg Pro Asp Phe₇₃₅ Lys
 Lys Ile Glu Thr₇₄₀ Thr Leu Ala Lys Ile₇₄₅ Phe Gly Leu Phe His₇₅₀ Asp Gln
 Lys Asn Glu Ser Tyr Met Asp Thr₇₆₀ Leu Ile Arg Arg Leu₇₆₅ Gln Leu Tyr
 Ser Arg Asn Leu Glu His Leu₇₇₅ Val Glu Glu Arg Thr₇₈₀ Gln Leu Tyr Lys
 Ala Glu Arg Asp Arg Ala₇₉₀ Asp Arg Leu Asn Phe₇₉₅ Met Leu Leu Pro Arg₈₀₀
 Leu Val Val Lys Ser₈₀₅ Leu Lys Glu Lys Gly₈₁₀ Phe Val Glu Pro Glu₈₁₅ Leu

GMD-102.1P US.txt

Tyr Glu Glu Val Thr Ile Tyr Phe Ser Asp Ile Val Gly Phe Thr Thr
 820 825 830
 Ile Cys Lys Tyr Ser Thr Pro Met Glu Val Val Asp Met Leu Asn Asp
 835 840 845
 Ile Tyr Lys Ser Phe Asp His Ile Val Asp His His Asp Val Tyr Lys
 850 855 860
 Val Glu Thr Ile Gly Asp Ala Tyr Met Val Ala Ser Gly Leu Pro Lys
 865 870 875 880
 Arg Asn Gly Asn Arg His Ala Ile Asp Ile Ala Lys Met Ala Leu Glu
 885 890 895
 Ile Leu Ser Phe Met Gly Thr Phe Glu Leu Glu His Leu Pro Gly Leu
 900 905 910
 Pro Ile Trp Ile Arg Ile Gly Val His Ser Gly Pro Cys Ala Ala Gly
 915 920 925
 Val Val Gly Ile Lys Met Pro Arg Tyr Cys Leu Phe Gly Asp Thr Val
 930 935 940
 Asn Thr Ala Ser Arg Met Glu Ser Thr Gly Leu Pro Leu Arg Ile His
 945 950 955 960
 Val Ser Gly Ser Thr Ile Ala Ile Leu Lys Arg Thr Glu Cys Gln Phe
 965 970 975
 Leu Tyr Glu Val Arg Gly Glu Thr Tyr Leu Lys Gly Arg Gly Asn Glu
 980 985 990
 Thr Thr Tyr Trp Leu Thr Gly Met Lys Asp Gln Lys Phe Asn Leu Pro
 995 1000 1005
 Thr Pro Pro Thr Val Glu Asn Gln Gln Arg Leu Gln Ala Glu Phe
 1010 1015 1020
 Ser Asp Met Ile Ala Asn Ser Leu Gln Lys Arg Gln Ala Ala Gly
 1025 1030 1035
 Ile Arg Ser Gln Lys Pro Arg Arg Val Ala Ser Tyr Lys Lys Gly
 1040 1045 1050
 Thr Leu Glu Tyr Leu Gln Leu Asn Thr Thr Asp Lys Glu Ser Thr
 1055 1060 1065

Tyr Phe
1070

<210> 15

<211> 93

<212> PRT

<213> Homo sapiens

<400> 15

Met Lys Leu Val Thr Ile Phe Leu Leu Val Thr Ile Ser Leu Cys Ser
1 5 10 15

Tyr Ser Ala Thr Ala Lys Leu Ile Asn Lys Cys Pro Leu Pro Val Asp
20 25 30

Lys Leu Ala Pro Leu Pro Leu Asp Asn Ile Leu Pro Phe Met Asp Pro
35 40 45

Leu Lys Leu Leu Leu Lys Thr Leu Gly Ile Ser Val Glu His Leu Val
50 55 60

Glu Gly Leu Arg Lys Cys Val Asn Glu Leu Gly Pro Glu Ala Ser Glu
65 70 75 80

Ala Val Lys Lys Leu Leu Glu Ala Leu Ser His Leu Val
85 90

<210> 16

<211> 261

<212> PRT

<213> Homo sapiens

<400> 16

Met Ala Val Thr Ala Cys Gln Gly Leu Gly Phe Val Val Ser Leu Ile
1 5 10 15

Gly Ile Ala Gly Ile Ile Ala Ala Thr Cys Met Asp Gln Trp Ser Thr
20 25 30

Gln Asp Leu Tyr Asn Asn Pro Val Thr Ala Val Phe Asn Tyr Gln Gly
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35

40

Leu Trp Arg Ser Cys Val Arg Glu Ser Ser Gly Phe Thr Glu Cys Arg
50 55 60

Gly Tyr Phe Thr Leu Leu Gly Leu Pro Ala Met Leu Gln Ala Val Arg
65 70 75 80

Ala Leu Met Ile Val Gly Ile Val Leu Gly Ala Ile Gly Leu Leu Val
85 90 95

Ser Ile Phe Ala Leu Lys Cys Ile Arg Ile Gly Ser Met Glu Asp Ser
100 105 110

Ala Lys Ala Asn Met Thr Leu Thr Ser Gly Ile Met Phe Ile Val Ser
115 120 125

Gly Leu Cys Ala Ile Ala Gly Val Ser Val Phe Ala Asn Met Leu Val
130 135 140

Thr Asn Phe Trp Met Ser Thr Ala Asn Met Tyr Thr Gly Met Gly Gly
145 150 155 160

Met Val Gln Thr Val Gln Thr Arg Tyr Thr Phe Gly Ala Ala Leu Phe
165 170 175

Val Gly Trp Val Ala Gly Gly Leu Thr Leu Ile Gly Gly Val Met Met
180 185 190

Cys Ile Ala Cys Arg Gly Leu Ala Pro Glu Glu Thr Asn Tyr Lys Ala
195 200 205

Val Ser Tyr His Ala Ser Gly His Ser Val Ala Tyr Lys Pro Gly Gly
210 215 220

Phe Lys Ala Ser Thr Gly Phe Gly Ser Asn Thr Lys Asn Lys Lys Ile
225 230 235 240

Tyr Asp Gly Gly Ala Arg Thr Glu Asp Glu Val Gln Ser Tyr Pro Ser
245 250 255

Lys His Asp Tyr Val
260

<210> 17

<211> 10

<212> PRT

<213> Homo sapiens

<400> 17

Asp Gln Trp Ser Thr Gln Asp Leu Tyr Asn
1 5 10

<210> 18

<211> 11

<212> PRT

<213> Homo sapiens

<400> 18

Asn Asn Pro Val Thr Ala Val Phe Asn Tyr Gln
1 5 10

<210> 19

<211> 47

<212> PRT

<213> Homo sapiens

<400> 19

Met Ala Val Thr Ala Cys Gln Gly Leu Gly Phe Val Val Ser Leu Ile
1 5 10 15

Gly Ile Ala Gly Ile Ile Ala Ala Thr Cys Met Asp Gln Trp Ser Thr
20 25 30

Gln Asp Leu Tyr Asn Asn Pro Val Thr Ala Val Phe Asn Tyr Gln
35 40 45

<210> 20

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 20
aggtacatga gcatcagcct g 21

<210> 21

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: Oligonucleotide

<400> 21
gcagcagttg gcatctgaga g 21

<210> 22

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: Oligonucleotide

<400> 22
gcaatagaca ttgccaagat g 21

<210> 23

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: Oligonucleotide

<400> 23
aacgctgttg attctccaca g 21

<210> 24

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: Oligonucleotide

<400> 24

ggatcctcct ttagttccca ggtgagtcag aac

33

<210> 25

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: Oligonucleotide

<400> 25

tgctctggag gctagcgttt c

21

<210> 26

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: Oligonucleotide

<400> 26

accaatcatg ttagcctcaa g

21

<210> 27

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: Oligonucleotide

<400> 27
agctatggga tcatcgaca g 21

<210> 28

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 28
cctttgagct ggagcatctt c 21

<210> 29

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 29
ctttctagct ggagacatca g 21

<210> 30

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 30
caccatggta ctgtcaacat c 21

<210> 31

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: Oligonucleotide

<400> 31

atgtcataca agacagagat c

21

<210> 32

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: Oligonucleotide

<400> 32

tctgccttgt acagctgtgt c

21

<210> 33

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: Oligonucleotide

<400> 33

tctgtggtat tcagctgcaa g

21

<210> 34

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: Oligonucleotide

<400> 34
tactcaggaa aatttcacct tg 22

<210> 35
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of the Artificial Sequence: oligonucleotide

<400> 35
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<210> 36
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of the Artificial Sequence: oligonucleotide

<400> 36
gatagaattg aacaagattg ac 22

<210> 37
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of the Artificial Sequence: oligonucleotide

<400> 37
cagcctttgt agttactctg c 21

<210> 38

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: Oligonucleotide

<400> 38

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21

<210> 39

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

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ggttcgtggt ttcactgatt gggattgc

28

<210> 40

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 40

cggctttgta gttggtttct tctggtg

27

<210> 41

<211> 3814

<212> DNA

<213> Homo sapiens

<400> 41

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caaggaagca gaatgtgcct acacactctt tgtggctgcc acattttggc tcacagaagc	180
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cattcaattt	atcactgctg	aattgcatca	gatcatggat	gcatttttat	tatgaaaaaa	3780

taaaatgact tttcaaatta aaaaaaaaaa GMD-102.1P US.txt 3814
aaaa

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<212> DNA
<213> Homo sapiens

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aacaaaacca gttccaggat acaataatga tacagggaaa atttcaagca aggtggagtt 660
ggaaaagact gtttaactac tgaaatgaag ctattctcct gactaaacat aactgaaaaa 720
ccattcatta aatg 734

<210> 43
<211> 539
<212> DNA
<213> Homo sapiens

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aatgatacag ggaaaatttc aagcaagggtg gagttggaaa agcactggaa acttgagtt 180
caagatggct ccccatctcc ctctgtccat tctgtatcgc agctagctgc tcaaggaaag 240
gagaaagtgg aaggcatatg tacttagaaa ttattctatt actttcctgg atttaagagt 300
attcagattt tctatttcaa catcaaacaa ttgcattttt aaaaagaaat ttatgtgttc 360

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<210> 44
 <211> 556
 <212> DNA
 <213> Homo sapiens

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		gaaaaga	act	caggcat	gag	aaccaa	atat		cgaaca	aaaga	agggcc	acgt	gacac	g	taaa	180
		cttacgt	gtt	tgtgcatt	gc	ctactct	tct		accatt	ggtg	gactg	aca	aatc	act	ggt	240
		acctcca	cca	acttgat	ctt	tgcagag	tat		ttcaata	cat	tccatcc	aca	caga	ag	agga	300
		gatcgt	taca	ggcatgt	taca	ccaggagg	ca		gaaatt	gag	gcata	cttg	gaact	ct	gtc	360
		taccacat	cc	tgaacat	cac	acagttt	cca		ctcttg	ttgc	cttcaat	cct	gaga	at	gcat	420
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<210> 45
 <211> 595
 <212> PRT
 <213> Homo sapiens

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					20					25					30		
		Lys	Glu	Ala	Glu	Cys	Ala	Tyr	Thr	Leu	Phe	Val	Val	Ala	Thr	Phe	Trp
				35					40					45			

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Leu Thr Glu Ala Leu Pro Leu Ser Val Thr Ala Leu Leu Pro Ser Leu
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 Met Leu Pro Met Phe Gly Ile Met Pro Ser Lys Lys Val Ala Ser Ala
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 Tyr Phe Lys Asp Phe His Leu Leu Leu Ile Gly Val Ile Cys Leu Ala
 85 90 95
 Thr Ser Ile Glu Lys Trp Asn Leu His Lys Arg Ile Ala Leu Lys Met
 100 105 110
 Val Met Met Val Gly Val Asn Pro Ala Trp Leu Thr Leu Gly Phe Met
 115 120 125
 Ser Ser Thr Ala Phe Leu Ser Met Trp Leu Ser Asn Thr Ser Thr Ala
 130 135 140
 Ala Met Val Met Pro Ile Ala Glu Ala Val Val Gln Gln Ile Ile Asn
 145 150 155 160
 Ala Glu Ala Glu Val Glu Ala Thr Gln Met Thr Tyr Phe Asn Gly Ser
 165 170 175
 Thr Asn His Gly Leu Glu Ile Asp Glu Ser Val Asn Gly His Glu Ile
 180 185 190
 Asn Glu Arg Lys Glu Lys Thr Lys Pro Val Pro Gly Tyr Asn Asn Asp
 195 200 205
 Thr Gly Lys Ile Ser Ser Lys Val Glu Leu Glu Lys Asn Ser Gly Met
 210 215 220
 Arg Thr Lys Tyr Arg Thr Lys Lys Gly His Val Thr Arg Lys Leu Thr
 225 230 235 240
 Cys Leu Cys Ile Ala Tyr Ser Ser Thr Ile Gly Gly Leu Thr Thr Ile
 245 250 255
 Thr Gly Thr Ser Thr Asn Leu Ile Phe Ala Glu Tyr Phe Asn Thr Arg
 260 265 270
 Tyr Pro Asp Cys Arg Cys Leu Asn Phe Gly Ser Trp Phe Thr Phe Ser
 275 280 285
 Phe Pro Ala Ala Leu Ile Ile Leu Leu Leu Ser Trp Ile Trp Leu Gln
 290 295 300

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 325 330 335
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 340 345 350
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 355 360 365
 Val Pro Gly Trp Ser Ala Leu Phe Ser Glu Tyr Pro Gly Phe Ala Thr
 370 375 380
 Asp Ser Thr Val Ala Leu Leu Ile Gly Leu Leu Phe Phe Leu Ile Pro
 385 390 395 400
 Ala Lys Thr Leu Thr Lys Thr Thr Pro Thr Gly Glu Ile Val Ala Phe
 405 410 415
 Asp Tyr Ser Pro Leu Ile Thr Trp Lys Glu Phe Gln Ser Phe Met Pro
 420 425 430
 Trp Asp Ile Ala Ile Leu Val Gly Gly Gly Phe Ala Leu Ala Asp Gly
 435 440 445
 Cys Glu Glu Ser Gly Leu Ser Lys Trp Ile Gly Asn Lys Leu Ser Pro
 450 455 460
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 465 470 475 480
 Val Thr Ser Leu Thr Glu Val Ala Ser Asn Pro Ala Thr Ile Thr Leu
 485 490 495
 Phe Leu Pro Ile Leu Ser Pro Leu Ala Glu Ala Ile His Val Asn Pro
 500 505 510
 Leu Tyr Ile Leu Ile Pro Ser Thr Leu Cys Thr Ser Phe Ala Phe Leu
 515 520 525
 Leu Pro Val Ala Asn Pro Pro Asn Ala Ile Val Phe Ser Tyr Gly His
 530 535 540
 Leu Lys Val Ile Asp Met Val Lys Ala Gly Leu Gly Val Asn Ile Val
 Page 37

545 550 GMD-102.1P US.txt 555 560

Gly Val Ala Val Val Met Leu Gly Ile Cys Thr Trp Ile Val Pro Met
565 570 575

Phe Asp Leu Tyr Thr Tyr Pro Ser Trp Ala Pro Ala Met Ser Asn Glu
580 585 590

Thr Met Pro
595

<210> 46

<211> 224

<212> PRT

<213> Homo sapiens

<400> 46

Arg Thr Met Lys Phe Phe Ser Tyr Ile Leu Val Tyr Arg Arg Phe Leu
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His Thr Lys Glu Ala Glu Cys Ala Tyr Thr Leu Phe Val Val Ala Thr
35 40 45

Phe Trp Leu Thr Glu Ala Leu Pro Leu Ser Val Thr Ala Leu Leu Pro
50 55 60

Ser Leu Met Leu Pro Met Phe Gly Ile Met Pro Ser Lys Lys Val Ala
65 70 75 80

Ser Ala Tyr Phe Lys Asp Phe His Leu Leu Leu Ile Gly Val Ile Cys
85 90 95

Leu Ala Thr Ser Ile Glu Lys Trp Asn Leu His Lys Arg Ile Ala Leu
100 105 110

Lys Met Val Met Met Val Gly Val Asn Pro Ala Trp Leu Thr Leu Gly
115 120 125

Phe Met Ser Ser Thr Ala Phe Leu Ser Met Trp Leu Ser Asn Thr Ser
130 135 140

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Thr Ala Ala Met Val Met Pro Ile Ala Glu Ala Val Val Gln Gln Ile
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Ile Asn Ala Glu Ala Glu Val Glu Ala Thr Gln Met Thr Tyr Phe Asn
 165 170 175

Gly Ser Thr Asn His Gly Leu Glu Ile Asp Glu Ser Val Asn Gly His
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Glu Ile Asn Glu Arg Lys Glu Lys Thr Lys Pro Val Pro Gly Tyr Asn
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Asn Asp Thr Gly Lys Ile Ser Ser Lys Val Glu Leu Glu Lys Thr Val
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<210> 47

<211> 88

<212> PRT

<213> Homo sapiens

<400> 47

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 20 25 30

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 35 40 45

Lys Val Glu Leu Glu Lys His Trp Lys Leu Ala Val Gln Asp Gly Ser
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Pro Ser Pro Ser Val His Ser Val Ser Gln Leu Ala Ala Gln Gly Lys
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Glu Lys Val Glu Gly Ile Cys Thr
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<211> 112

<212> PRT

<213> Homo sapiens

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Lys Ile Ser Ser Lys Val Glu Leu Glu Lys Asn Ser Gly Met Arg Thr
 35 40 45

Lys Tyr Arg Thr Lys Lys Gly His Val Thr Arg Lys Leu Thr Cys Leu
 50 55 60

Cys Ile Ala Tyr Ser Ser Thr Ile Gly Gly Leu Thr Thr Ile Thr Gly
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Thr Ser Thr Asn Leu Ile Phe Ala Glu Tyr Phe Asn Thr Phe His Pro
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His Arg Arg Gly Asp Arg Thr Arg His Val His Gln Glu Ala Glu Ile
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<210> 49

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 49

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21

<210> 50

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 50
cagatggttg tgaggagtct g

21

<210> 51

<211> 3311

<212> DNA

<213> Homo sapiens

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GMD-102.1P US.txt

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<210> 57

<211> 2572

<212> DNA

<213> Homo sapiens

<400> 57

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ttaacctgaa	tgttttgtta	cttaaataatt	aaaaaactg	ttatcctaca	aaaaaacct	2520
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<210> 58

<211> 1324

<212> DNA

<213> Homo sapiens

<400> 58

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tgacatccag	gtgtccgatg	atgacaaggc	gggggccacc	ttgctcttct	caggcatctt	180

GMD-102.1P US.txt

tctgggactg	gtggggatca	cattcactgt	catgggctgg	atcaaatacc	aaggtgtctc	240
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cctgattgct	gtgtgcaagt	tcaaaatgct	ctcctgccag	ttgtgcaaag	aaagtgagga	360
aagggtcccg	gactcgggaac	agacaccagg	aggaccatca	tttgttttca	ctggcatcaa	420
ccaacccatc	accttccatg	gggccactgt	ggtgcagtac	atccctcctc	cttatggttc	480
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ccctcaagat	aactctgcat	ttgtggttga	tgagggctgc	ctttctttca	cggacggtgg	660
aaatcacagg	cccaatcctg	atgttgacca	gctagaagag	acacagctgg	aagaggaggc	720
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<210> 59

<211> 683

<212> DNA

<213> Homo sapiens

<400> 59

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gccgccgagc	agaggaatca	agacctgctc	attcttttct	cgggggatcc	atccagcaat	180
gacatcatct	catgctgcca	caaggacccc	aagtctgggc	tgctggggac	cagccacgct	240
ccccactgct	cattccttca	tcctagagac	attctgactc	tcctccgact	gcgctgtgca	300

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tatgcatcca acaaatattg attgaatata tgctaaatac ccagtaatgt ttcatgagtg	420
attgggtgaa taaaggaatg ctggttcctt ctggccatat taactcctgc acaataactaa	480
gaaaaataaa ttgcactagc tgtggaataa tgtgaatccc aatgtcatct attgaaatat	540
tacctgacta ttaagaggta tttatttttg tatcttttct agcaaagtaa ataaaattct	600
taatacagca tatcccctta ttcacggggg gtatgttcca agacccccgg tggatgcctg	660
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<210> 60

<211> 914

<212> PRT

<213> Homo sapiens

<400> 60

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			20					25					30		

Glu	Gly	Ile	Val	Val	Ala	Ile	Asp	Pro	Asn	Val	Pro	Glu	Asp	Glu	Thr
		35					40					45			

Leu	Ile	Gln	Gln	Ile	Lys	Asp	Met	Val	Thr	Gln	Ala	Ser	Leu	Tyr	Leu
	50					55					60				

Phe	Glu	Ala	Thr	Gly	Lys	Arg	Phe	Tyr	Phe	Lys	Asn	Val	Ala	Ile	Leu
65					70					75					80

Ile	Pro	Glu	Thr	Trp	Lys	Thr	Lys	Ala	Asp	Tyr	Val	Arg	Pro	Lys	Leu
				85					90					95	

Glu	Thr	Tyr	Lys	Asn	Ala	Asp	Val	Leu	Val	Ala	Glu	Ser	Thr	Pro	Pro
			100					105					110		

Gly	Asn	Asp	Glu	Pro	Tyr	Thr	Glu	Gln	Met	Gly	Asn	Cys	Gly	Glu	Lys
		115					120					125			

Gly	Glu	Arg	Ile	His	Leu	Thr	Pro	Asp	Phe	Ile	Ala	Gly	Lys	Lys	Leu
	130					135					140				

GMD-102.1P US.txt

Ala Glu Tyr Gly Pro Gln Gly Lys Ala Phe Val His Glu Trp Ala His
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 Leu Arg Trp Gly Val Phe Asp Glu Tyr Asn Asn Asp Glu Lys Phe Tyr
 165 170 175
 Leu Ser Asn Gly Arg Ile Gln Ala Val Arg Cys Ser Ala Gly Ile Thr
 180 185 190
 Gly Thr Asn Val Val Lys Lys Cys Gln Gly Gly Ser Cys Tyr Thr Lys
 195 200 205
 Arg Cys Thr Phe Asn Lys Val Thr Gly Leu Tyr Glu Lys Gly Cys Glu
 210 215 220
 Phe Val Leu Gln Ser Arg Gln Thr Glu Lys Ala Ser Ile Met Phe Ala
 225 230 235 240
 Gln His Val Asp Ser Ile Val Glu Phe Cys Thr Glu Gln Asn His Asn
 245 250 255
 Lys Glu Ala Pro Asn Lys Gln Asn Gln Lys Cys Asn Leu Arg Ser Thr
 260 265 270
 Trp Glu Val Ile Arg Asp Ser Glu Asp Phe Lys Lys Thr Thr Pro Met
 275 280 285
 Thr Thr Gln Pro Pro Asn Pro Thr Phe Ser Leu Leu Gln Ile Gly Gln
 290 295 300
 Arg Ile Val Cys Leu Val Leu Asp Lys Ser Gly Ser Met Ala Thr Gly
 305 310 315 320
 Asn Arg Leu Asn Arg Leu Asn Gln Ala Gly Gln Leu Phe Leu Leu Gln
 325 330 335
 Thr Val Glu Leu Gly Ser Trp Val Gly Met Val Thr Phe Asp Ser Ala
 340 345 350
 Ala His Val Gln Ser Glu Leu Ile Gln Ile Asn Ser Gly Ser Asp Arg
 355 360 365
 Asp Thr Leu Ala Lys Arg Leu Pro Ala Ala Ala Ser Gly Gly Thr Ser
 370 375 380
 Ile Cys Ser Gly Leu Arg Ser Ala Phe Thr Val Ile Arg Lys Lys Tyr
 385 390 395 400

GMD-102.1P US.txt

Pro Thr Asp Gly Ser Glu Ile Val Leu Leu Thr Asp Gly Glu Asp Asn
405 410 415

Thr Ile Ser Gly Cys Phe Asn Glu Val Lys Gln Ser Gly Ala Ile Ile
420 425 430

His Thr Val Ala Leu Gly Pro Ser Ala Ala Gln Glu Leu Glu Glu Leu
435 440 445

Ser Lys Met Thr Gly Gly Leu Gln Thr Tyr Ala Ser Asp Gln Val Gln
450 455 460

Asn Asn Gly Leu Ile Asp Ala Phe Gly Ala Leu Ser Ser Gly Asn Gly
465 470 475 480

Ala Val Ser Gln Arg Ser Ile Gln Leu Glu Ser Lys Gly Leu Thr Leu
485 490 495

Gln Asn Ser Gln Trp Met Asn Gly Thr Val Ile Val Asp Ser Thr Val
500 505 510

Gly Lys Asp Thr Leu Phe Leu Ile Thr Trp Thr Thr Gln Pro Pro Gln
515 520 525

Ile Leu Leu Trp Asp Pro Ser Gly Gln Lys Gln Gly Gly Phe Val Val
530 535 540

Asp Lys Asn Thr Lys Met Ala Tyr Leu Gln Ile Pro Gly Ile Ala Lys
545 550 555 560

Val Gly Thr Trp Lys Tyr Ser Leu Gln Ala Ser Ser Gln Thr Leu Thr
565 570 575

Leu Thr Val Thr Ser Arg Ala Ser Asn Ala Thr Leu Pro Pro Ile Thr
580 585 590

Val Thr Ser Lys Thr Asn Lys Asp Thr Ser Lys Phe Pro Ser Pro Leu
595 600 605

Val Val Tyr Ala Asn Ile Arg Gln Gly Ala Ser Pro Ile Leu Arg Ala
610 615 620

Ser Val Thr Ala Leu Ile Glu Ser Val Asn Gly Lys Thr Val Thr Leu
625 630 635 640

Glu Leu Leu Asp Asn Gly Ala Gly Ala Asp Ala Thr Lys Asp Asp Gly
645 650 655

GMD-102.1P US.txt

Val Tyr Ser Arg Tyr Phe Thr Thr Tyr Asp Thr Asn Gly Arg Tyr Ser
660 665 670

Val Lys Val Arg Ala Leu Gly Gly Val Asn Ala Ala Arg Arg Arg Val
675 680 685

Ile Pro Gln Gln Ser Gly Ala Leu Tyr Ile Pro Gly Trp Ile Glu Asn
690 695 700

Asp Glu Ile Gln Trp Asn Pro Pro Arg Pro Glu Ile Asn Lys Asp Asp
705 710 715 720

Val Gln His Lys Gln Val Cys Phe Ser Arg Thr Ser Ser Gly Gly Ser
725 730 735

Phe Val Ala Ser Asp Val Pro Asn Ala Pro Ile Pro Asp Leu Phe Pro
740 745 750

Pro Gly Gln Ile Thr Asp Leu Lys Ala Glu Ile His Gly Gly Ser Leu
755 760 765

Ile Asn Leu Thr Trp Thr Ala Pro Gly Asp Asp Tyr Asp His Gly Thr
770 775 780

Ala His Lys Tyr Ile Ile Arg Ile Ser Thr Ser Ile Leu Asp Leu Arg
785 790 795 800

Asp Lys Phe Asn Glu Ser Leu Gln Val Asn Thr Thr Ala Leu Ile Pro
805 810 815

Lys Glu Ala Asn Ser Glu Glu Val Phe Leu Phe Lys Pro Glu Asn Ile
820 825 830

Thr Phe Glu Asn Gly Thr Asp Leu Phe Ile Ala Ile Gln Ala Val Asp
835 840 845

Lys Val Asp Leu Lys Ser Glu Ile Ser Asn Ile Ala Arg Val Ser Leu
850 855 860

Phe Ile Pro Pro Gln Thr Pro Pro Glu Thr Pro Ser Pro Asp Glu Thr
865 870 875 880

Ser Ala Pro Cys Pro Asn Ile His Ile Asn Ser Thr Ile Pro Gly Ile
885 890 895

His Ile Leu Lys Ile Met Trp Lys Trp Ile Gly Glu Leu Gln Leu Ser

Ile Ala

<210> 61

<211> 501

<212> PRT

<213> Homo sapiens

<400> 61

Met Lys Lys Glu Gly Arg Lys Arg Trp Lys Arg Lys Glu Asp Lys Lys
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Arg Val Val Val Ser Asn Leu Leu Phe Glu Gly Trp Ser His Lys Glu
20 25 30

Asn Pro Asn Arg His His Arg Gly Asn Gln Ile Lys Thr Ser Lys Tyr
35 40 45

Thr Val Leu Ser Phe Val Pro Lys Asn Ile Phe Glu Gln Leu His Arg
50 55 60

Phe Ala Asn Leu Tyr Phe Val Gly Ile Ala Val Leu Asn Phe Ile Pro
65 70 75 80

Val Val Asn Ala Phe Gln Pro Glu Val Ser Met Ile Pro Ile Cys Val
85 90 95

Ile Leu Ala Val Thr Ala Ile Lys Asp Ala Trp Glu Asp Leu Arg Arg
100 105 110

Tyr Lys Ser Asp Lys Val Ile Asn Asn Arg Glu Cys Leu Ile Tyr Ser
115 120 125

Arg Lys Glu Gln Thr Tyr Val Gln Lys Cys Trp Lys Asp Val Arg Val
130 135 140

Gly Asp Phe Ile Gln Met Lys Cys Asn Glu Ile Val Pro Ala Asp Ile
145 150 155 160

Leu Leu Leu Phe Ser Ser Asp Pro Asn Gly Ile Cys His Leu Glu Thr
165 170 175

GMD-102.1P US.txt

Ala Ser Leu Asp Gly Glu Thr Asn Leu Lys Gln Arg Arg Val Val Lys
180 185 190

Gly Phe Ser Gln Gln Glu Val Gln Phe Glu Pro Glu Leu Phe His Asn
195 200 205

Thr Ile Val Cys Glu Lys Pro Asn Asn His Leu Asn Lys Phe Lys Gly
210 215 220

Tyr Met Glu His Pro Asp Gln Thr Arg Thr Gly Phe Gly Cys Glu Ser
225 230 235 240

Leu Leu Leu Arg Gly Cys Thr Ile Arg Asn Thr Glu Met Ala Val Gly
245 250 255

Ile Val Ile Tyr Ala Gly His Glu Thr Lys Ala Met Leu Asn Asn Ser
260 265 270

Gly Pro Arg Tyr Lys Arg Ser Lys Ile Glu Arg Arg Met Asn Ile Asp
275 280 285

Ile Phe Phe Cys Ile Gly Ile Leu Ile Leu Met Cys Leu Ile Gly Ala
290 295 300

Val Gly His Ser Ile Trp Asn Gly Thr Phe Glu Glu His Pro Pro Phe
305 310 315 320

Asp Val Pro Asp Ala Asn Gly Ser Phe Leu Pro Ser Ala Leu Gly Gly
325 330 335

Phe Tyr Met Phe Leu Thr Met Ile Ile Leu Leu Gln Val Leu Ile Pro
340 345 350

Ile Ser Leu Tyr Val Ser Ile Glu Leu Val Lys Leu Gly Gln Val Phe
355 360 365

Phe Leu Ser Asn Asp Leu Asp Leu Tyr Asp Glu Glu Thr Asp Leu Ser
370 375 380

Ile Gln Cys Arg Ala Leu Asn Ile Ala Glu Asp Leu Gly Gln Ile Gln
385 390 395 400

Tyr Ile Phe Ser Asp Lys Thr Gly Thr Leu Thr Glu Asn Lys Met Val
405 410 415

Phe Arg Arg Cys Thr Ile Met Gly Ser Glu Tyr Ser His Gln Glu Asn
420 425 430

GMD-102.1P US.txt

Gly Ile Glu Ala Pro Lys Gly Ser Ile Pro Leu Ser Lys Arg Lys Tyr
435 440 445

Pro Ala Leu Leu Arg Asn Glu Glu Ile Lys Asp Ile Leu Leu Ala Leu
450 455 460

Leu Glu Ala Val Trp His Phe His Lys Leu Leu Pro Val Ser Leu Trp
465 470 475 480

Ser Ser Leu Ser Gln Ile Arg Ala Val Pro Ile Thr Cys Lys Leu Ser
485 490 495

Phe Val Tyr Lys Gly
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<210> 62

<211> 154

<212> PRT

<213> Homo sapiens

<400> 62

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Trp Pro Pro Ser Arg Val Trp Leu Gly Ala Cys Cys Ala Ser Leu Ala
35 40 45

Ser Pro Pro Lys Gly Thr Ile Pro Ser Gly Glu Tyr Tyr Arg Pro Ala
50 55 60

Pro Ser Ser Ser Gly Asp Ser Leu Arg Arg Glu Ser Gly Ala Leu Leu
65 70 75 80

Gln Tyr Leu Pro Ser Leu Ala Ser Pro Cys Ala Asn His Ala Thr Arg
85 90 95

Cys Ser Leu Leu Phe Pro Ile Tyr Lys Ile Lys Met Thr Leu Leu Tyr
100 105 110

Leu Thr Gly Leu Ala Arg Thr His Cys Cys Cys Leu Ala Asp Arg Cys
115 120 125

GMD-102.1P US.txt

Ala Glu Ala Val Glu Ser Ala Phe Tyr Leu Val Gly Ser Leu Cys Ile
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Asn Ala Arg Gly Ala Ala His Leu Thr Asp
145 150

<210> 63

<211> 484

<212> PRT

<213> Homo sapiens

<400> 63

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Thr Leu Ile Gln Ala Thr Leu Ser Pro Thr Ala Val Leu Ile Leu Gly
20 25 30

Pro Lys Val Ile Lys Glu Lys Leu Thr Gln Glu Leu Lys Asp His Asn
35 40 45

Ala Thr Ser Ile Leu Gln Gln Leu Pro Leu Leu Ser Ala Met Arg Glu
50 55 60

Lys Pro Ala Gly Gly Ile Pro Val Leu Gly Ser Leu Val Asn Thr Val
65 70 75 80

Leu Lys His Ile Ile Trp Leu Lys Val Ile Thr Ala Asn Ile Leu Gln
85 90 95

Leu Gln Val Lys Pro Ser Ala Asn Asp Gln Glu Leu Leu Val Lys Ile
100 105 110

Pro Leu Asp Met Val Ala Gly Phe Asn Thr Pro Leu Val Lys Thr Ile
115 120 125

Val Glu Phe His Met Thr Thr Glu Ala Gln Ala Thr Ile Arg Met Asp
130 135 140

Thr Ser Ala Ser Gly Pro Thr Arg Leu Val Leu Ser Asp Cys Ala Thr
145 150 155 160

Ser His Gly Ser Leu Arg Ile Gln Leu Leu His Lys Leu Ser Phe Leu
Page 61

Val Asn Ala Leu Ala Lys Gln Val Met Asn Leu Leu Val Pro Ser Leu
180 185 190

Pro Asn Leu Val Lys Asn Gln Leu Cys Pro Val Ile Glu Ala Ser Phe
195 200 205

Asn Gly Met Tyr Ala Asp Leu Leu Gln Leu Val Lys Val Pro Ile Ser
210 215 220

Leu Ser Ile Asp Arg Leu Glu Phe Asp Leu Leu Tyr Pro Ala Ile Lys
225 230 235 240

Gly Asp Thr Ile Gln Leu Tyr Leu Gly Ala Lys Leu Leu Asp Ser Gln
245 250 255

Gly Lys Val Thr Lys Trp Phe Asn Asn Ser Ala Ala Ser Leu Thr Met
260 265 270

Pro Thr Leu Asp Asn Ile Pro Phe Ser Leu Ile Val Ser Gln Asp Val
275 280 285

Val Lys Ala Ala Val Ala Ala Val Leu Ser Pro Glu Glu Phe Met Val
290 295 300

Leu Leu Asp Ser Val Leu Pro Glu Ser Ala His Arg Leu Lys Ser Ser
305 310 315 320

Ile Gly Leu Ile Asn Glu Lys Ala Ala Asp Lys Leu Gly Ser Thr Gln
325 330 335

Ile Val Lys Ile Leu Thr Gln Asp Thr Pro Glu Phe Phe Ile Asp Gln
340 345 350

Gly His Ala Lys Val Ala Gln Leu Ile Val Leu Glu Val Phe Pro Ser
355 360 365

Ser Glu Ala Leu Arg Pro Leu Phe Thr Leu Gly Ile Glu Ala Ser Ser
370 375 380

Glu Ala Gln Phe Tyr Thr Lys Gly Asp Gln Leu Ile Leu Asn Leu Asn
385 390 395 400

Asn Ile Ser Ser Asp Arg Ile Gln Leu Met Asn Ser Gly Ile Gly Trp
405 410 415

GMD-102.1P US.txt

Phe Gln Pro Asp Val Leu Lys Asn Ile Ile Thr Glu Ile Ile His Ser
420 425 430

Ile Leu Leu Pro Asn Gln Asn Gly Lys Leu Arg Ser Gly Val Pro Val
435 440 445

Ser Leu Val Lys Ala Leu Gly Phe Glu Ala Ala Glu Ser Ser Leu Thr
450 455 460

Lys Asp Ala Leu Val Leu Thr Pro Ala Ser Leu Trp Lys Pro Ser Ser
465 470 475 480

Pro Val Ser Gln

<210> 64
<211> 256
<212> PRT
<213> Homo sapiens

<400> 64

Met Phe Gln Thr Gly Gly Leu Ile Val Phe Tyr Gly Leu Leu Ala Gln
1 5 10 15

Thr Met Ala Gln Phe Gly Gly Leu Pro Val Pro Leu Asp Gln Thr Leu
20 25 30

Pro Leu Asn Val Asn Pro Ala Leu Pro Leu Ser Pro Thr Gly Leu Ala
35 40 45

Gly Ser Leu Thr Asn Ala Leu Ser Asn Gly Leu Leu Ser Gly Gly Leu
50 55 60

Leu Gly Ile Leu Glu Asn Leu Pro Leu Leu Asp Ile Leu Lys Pro Gly
65 70 75 80

Gly Gly Thr Ser Gly Gly Leu Leu Gly Gly Leu Leu Gly Lys Val Thr
85 90 95

Ser Val Ile Pro Gly Leu Asn Asn Ile Ile Asp Ile Lys Val Thr Asp
100 105 110

Pro Gln Leu Leu Glu Leu Gly Leu Val Gln Ser Pro Asp Gly His Arg
115 120 125

GMD-102.1P US.txt

Leu Tyr Val Thr Ile Pro Leu Gly Ile Lys Leu Gln Val Asn Thr Pro
130 135 140

Leu Val Gly Ala Ser Leu Leu Arg Leu Ala Val Lys Leu Asp Ile Thr
145 150 155 160

Ala Glu Ile Leu Ala Val Arg Asp Lys Gln Glu Arg Ile His Leu Val
165 170 175

Leu Gly Asp Cys Thr His Ser Pro Gly Ser Leu Gln Ile Ser Leu Leu
180 185 190

Asp Gly Leu Gly Pro Leu Pro Ile Gln Gly Leu Leu Asp Ser Leu Thr
195 200 205

Gly Ile Leu Asn Lys Val Leu Pro Glu Leu Val Gln Gly Asn Val Cys
210 215 220

Pro Leu Val Asn Glu Val Leu Arg Gly Leu Asp Ile Thr Leu Val His
225 230 235 240

Asp Ile Val Asn Met Leu Ile His Gly Leu Gln Phe Val Ile Lys Val
245 250 255

<210> 65

<211> 791

<212> PRT

<213> Homo sapiens

<400> 65

Met Ser Gln Pro Arg Pro Arg Tyr Val Val Asp Arg Ala Ala Tyr Ser
1 5 10 15

Leu Thr Leu Phe Asp Asp Glu Phe Glu Lys Lys Asp Arg Thr Tyr Pro
20 25 30

Val Gly Glu Lys Leu Arg Asn Ala Phe Arg Cys Ser Ser Ala Lys Ile
35 40 45

Lys Ala Val Val Phe Gly Leu Leu Pro Val Leu Ser Trp Leu Pro Lys
50 55 60

Tyr Lys Ile Lys Asp Tyr Ile Ile Pro Asp Leu Leu Gly Gly Leu Ser
65 70 75 80

GMD-102.1P US.txt

Gly Gly Ser Ile Gln Val Pro Gln Gly Met Ala Phe Ala Leu Leu Ala
85 90 95

Asn Leu Pro Ala Val Asn Gly Leu Tyr Ser Ser Phe Phe Pro Leu Leu
100 105 110

Thr Tyr Phe Phe Leu Gly Gly Val His Gln Met Val Pro Gly Thr Phe
115 120 125

Ala Val Ile Ser Ile Leu Val Gly Asn Ile Cys Leu Gln Leu Ala Pro
130 135 140

Glu Ser Lys Phe Gln Val Phe Asn Asn Ala Thr Asn Glu Ser Tyr Val
145 150 155 160

Asp Thr Ala Ala Met Glu Ala Glu Arg Leu His Val Ser Ala Thr Leu
165 170 175

Ala Cys Leu Thr Ala Ile Ile Gln Met Gly Leu Gly Phe Met Gln Phe
180 185 190

Gly Phe Val Ala Ile Tyr Leu Ser Glu Ser Phe Ile Arg Gly Phe Met
195 200 205

Thr Ala Ala Gly Leu Gln Ile Leu Ile Ser Val Leu Lys Tyr Ile Phe
210 215 220

Gly Leu Thr Ile Pro Ser Tyr Thr Gly Pro Gly Ser Ile Val Phe Thr
225 230 235 240

Phe Ile Asp Ile Cys Lys Asn Leu Pro His Thr Asn Ile Ala Ser Leu
245 250 255

Ile Phe Ala Leu Ile Ser Gly Ala Phe Leu Val Leu Val Lys Glu Leu
260 265 270

Asn Ala Arg Tyr Met His Lys Ile Arg Phe Pro Ile Pro Thr Glu Met
275 280 285

Ile Val Val Val Val Ala Thr Ala Ile Ser Gly Gly Cys Lys Met Pro
290 295 300

Lys Lys Tyr His Met Gln Ile Val Gly Glu Ile Gln Arg Gly Phe Pro
305 310 315 320

Thr Pro Val Ser Pro Val Val Ser Gln Trp Lys Asp Met Ile Gly Thr
Page 65

Ala Phe Ser Leu Ala Ile Val Ser Tyr Val Ile Asn Leu Ala Met Gly
340 345 350

Arg Thr Leu Ala Asn Lys His Gly Tyr Asp Val Asp Ser Asn Gln Glu
355 360 365

Met Ile Ala Leu Gly Cys Ser Asn Phe Phe Gly Ser Phe Phe Lys Ile
370 375 380

His Val Ile Cys Cys Ala Leu Ser Val Thr Leu Ala Val Asp Gly Ala
385 390 395 400

Gly Gly Lys Ser Gln Val Ala Ser Leu Cys Val Ser Leu Val Val Met
405 410 415

Ile Thr Met Leu Val Leu Gly Ile Tyr Leu Tyr Pro Leu Pro Lys Ser
420 425 430

Val Leu Gly Ala Leu Ile Ala Val Asn Leu Lys Asn Ser Leu Lys Gln
435 440 445

Leu Thr Asp Pro Tyr Tyr Leu Trp Arg Lys Ser Lys Leu Asp Cys Cys
450 455 460

Ile Trp Val Val Ser Phe Leu Ser Ser Phe Phe Leu Ser Leu Pro Tyr
465 470 475 480

Gly Val Ala Val Gly Val Ala Phe Ser Val Leu Val Val Val Phe Gln
485 490 495

Thr Gln Phe Arg Asn Gly Tyr Ala Leu Ala Gln Val Met Asp Thr Asp
500 505 510

Ile Tyr Val Asn Pro Lys Thr Tyr Asn Arg Ala Gln Asp Ile Gln Gly
515 520 525

Ile Lys Ile Ile Thr Tyr Cys Ser Pro Leu Tyr Phe Ala Asn Ser Glu
530 535 540

Ile Phe Arg Gln Lys Val Ile Ala Lys Thr Gly Met Asp Pro Gln Lys
545 550 555 560

Val Leu Leu Ala Lys Gln Lys Tyr Leu Lys Lys Gln Glu Lys Arg Arg
565 570 575

Met Arg Pro Thr Gln Gln Arg Arg Ser Leu Phe Met Lys Thr Lys Thr
 580 585 590

Val Ser Leu Gln Glu Leu Gln Gln Asp Phe Glu Asn Ala Pro Pro Thr
 595 600 605

Asp Pro Asn Asn Asn Gln Thr Pro Ala Asn Gly Thr Ser Val Ser Tyr
 610 615 620

Ile Thr Phe Ser Pro Asp Ser Ser Ser Pro Ala Gln Ser Glu Pro Pro
 625 630 635 640

Ala Ser Ala Glu Ala Pro Gly Glu Pro Ser Asp Met Leu Ala Ser Val
 645 650 655

Pro Pro Phe Val Thr Phe His Thr Leu Ile Leu Asp Met Ser Gly Val
 660 665 670

Ser Phe Val Asp Leu Met Gly Ile Lys Ala Leu Ala Lys Leu Ser Ser
 675 680 685

Thr Tyr Gly Lys Ile Gly Val Lys Val Phe Leu Val Asn Ile His Ala
 690 695 700

Gln Val Tyr Asn Asp Ile Ser His Gly Gly Val Phe Glu Asp Gly Ser
 705 710 715 720

Leu Glu Cys Lys His Val Phe Pro Ser Ile His Asp Ala Val Leu Phe
 725 730 735

Ala Gln Ala Asn Ala Arg Asp Val Thr Pro Gly His Asn Phe Gln Gly
 740 745 750

Ala Pro Gly Asp Ala Glu Leu Ser Leu Tyr Asp Ser Glu Glu Asp Ile
 755 760 765

Arg Ser Tyr Trp Asp Leu Glu Gln Glu Met Phe Gly Ser Met Phe His
 770 775 780

Ala Glu Thr Leu Thr Ala Leu
 785 790

<210> 66

<211> 243

<212> PRT

<213> Homo sapiens

<400> 66

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 20 25 30

Asp Asp Lys Ala Gly Ala Thr Leu Leu Phe Ser Gly Ile Phe Leu Gly
 35 40 45

Leu Val Gly Ile Thr Phe Thr Val Met Gly Trp Ile Lys Tyr Gln Gly
 50 55 60

Val Ser His Phe Glu Trp Thr Gln Leu Leu Gly Pro Val Leu Leu Ser
 65 70 75 80

Val Gly Val Thr Phe Ile Leu Ile Ala Val Cys Lys Phe Lys Met Leu
 85 90 95

Ser Cys Gln Leu Cys Lys Glu Ser Glu Glu Arg Val Pro Asp Ser Glu
 100 105 110

Gln Thr Pro Gly Gly Pro Ser Phe Val Phe Thr Gly Ile Asn Gln Pro
 115 120 125

Ile Thr Phe His Gly Ala Thr Val Val Gln Tyr Ile Pro Pro Pro Tyr
 130 135 140

Gly Ser Pro Glu Pro Met Gly Ile Asn Thr Ser Tyr Leu Gln Ser Val
 145 150 155 160

Val Ser Pro Cys Gly Leu Ile Thr Ser Gly Gly Ala Ala Ala Ala Met
 165 170 175

Ser Ser Pro Pro Gln Tyr Tyr Thr Ile Tyr Pro Gln Asp Asn Ser Ala
 180 185 190

Phe Val Val Asp Glu Gly Cys Leu Ser Phe Thr Asp Gly Gly Asn His
 195 200 205

Arg Pro Asn Pro Asp Val Asp Gln Leu Glu Glu Thr Gln Leu Glu Glu
 210 215 220

Glu Ala Cys Ala Cys Phe Ser Pro Pro Pro Tyr Glu Glu Ile Tyr Ser
 225 230 235 240

Leu Pro Arg

<210> 67

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 67

acacgaatgg tagatacagt g

21

<210> 68

<211> 21

<212> DNA

<213> Artificial Sequence

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<223> Description of the Artificial Sequence: oligonucleotide

<400> 68

atacttgtga gctgttccat g

21

<210> 69

<211> 21

<212> DNA

<213> Artificial Sequence

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<223> Description of the Artificial Sequence: oligonucleotide

<400> 69

actgttacct tgcattggact g

21

<210> 70

<211> 21

<212> DNA

<213> Artificial Sequence

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<223> Description of the Artificial Sequence: oligonucleotide

<400> 70

caatgagaac acatggacat g

21

<210> 71

<211> 21

<212> DNA

<213> Artificial Sequence

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<223> Description of the Artificial Sequence: oligonucleotide

<400> 71

ccatgaaagc tccatgtcta c

21

<210> 72

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 72

agagatggca catattctgt c

21

<210> 73

<211> 21

<212> DNA

<213> Artificial Sequence

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<223> Description of the Artificial Sequence: oligonucleotide

<400> 73
atcggctgaa gtcaagcatc g 21

<210> 74

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 74
tggtcagtga ggactcagct g 21

<210> 75

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 75
tttctctgct tgatgcactt g 21

<210> 76

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 76
gtgagcactg ggaagcagct c 21

<210> 77

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 77

ggcaaagtgc agagacgtga c

21

<210> 78

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 78

aggtgtcctt cagctgcaa g

21

<210> 79

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 79

gttaagtgc ctctggattt g

21

<210> 80

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 80
atcctgattg ctgtgtgcaa g 21

<210> 81

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 81
ctcttctagc tggtaacat c 21

<210> 82

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 82
ccagcaacaa cttacgtggt c 21

<210> 83

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 83
cctttattca cccaatcact c 21

<210> 84

<211> 2165

<212> DNA

<213> Homo sapiens

<400> 84

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tcccttattt ataccctgac atgtcggttt gaaggcttat tgaggcccta cattgagtat   1620
ccgtcctata atgagcaaaa tggaactccc atagtcatct gccagtcac ccaggaatca   1680

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<210> 85

<211> 347

<212> PRT

<213> Homo sapiens

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Gly Glu Asp Ala Ala Phe Ser Cys Phe Leu Ser Pro Lys Thr Asn Ala
 35 40 45

Glu Ala Met Glu Val Arg Phe Phe Arg Gly Gln Phe Ser Ser Val Val
 50 55 60

His Leu Tyr Arg Asp Gly Lys Asp Gln Pro Phe Met Gln Met Pro Gln
 65 70 75 80

Tyr Gln Gly Arg Thr Lys Leu Val Lys Asp Ser Ile Ala Glu Gly Arg
 85 90 95

Ile Ser Leu Arg Leu Glu Asn Ile Thr Val Leu Asp Ala Gly Leu Tyr
 100 105 110

Gly Cys Arg Ile Ser Ser Gln Ser Tyr Tyr Gln Lys Ala Ile Trp Glu
 115 120 125

GMD-102.1P US.txt

Leu Gln Val Ser Ala Leu Gly Ser Val Pro Leu Ile Ser Ile Thr Gly
130 135 140

Tyr Val Asp Arg Asp Ile Gln Leu Leu Cys Gln Ser Ser Gly Trp Phe
145 150 155 160

Pro Arg Pro Thr Ala Lys Trp Lys Gly Pro Gln Gly Gln Asp Leu Ser
165 170 175

Thr Asp Ser Arg Thr Asn Arg Asp Met His Gly Leu Phe Asp Val Glu
180 185 190

Ile Ser Leu Thr Val Gln Glu Asn Ala Gly Ser Ile Ser Cys Ser Met
195 200 205

Arg His Ala His Leu Ser Arg Glu Val Glu Ser Arg Val Gln Ile Gly
210 215 220

Asp Thr Phe Phe Glu Pro Ile Ser Trp His Leu Ala Thr Lys Val Leu
225 230 235 240

Gly Ile Leu Cys Cys Gly Leu Phe Phe Gly Ile Val Gly Leu Lys Ile
245 250 255

Phe Phe Ser Lys Phe Gln Cys Lys Arg Glu Arg Glu Ala Trp Ala Gly
260 265 270

Ala Leu Phe Met Val Pro Ala Gly Thr Gly Ser Glu Met Leu Pro His
275 280 285

Pro Ala Ala Ser Leu Leu Leu Val Leu Ala Ser Arg Gly Pro Gly Pro
290 295 300

Lys Lys Glu Asn Pro Gly Gly Thr Gly Leu Glu Lys Lys Ala Arg Thr
305 310 315 320

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325 330 335

Ser Arg Asp Gly Ser Pro Glu Ala Leu Arg Phe
340 345

<210> 86

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 86

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21

<210> 87

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 87

gggagacaaa gtcacgtact c

21

<210> 88

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 88

tcctgggtgtt cgtgggtctgc tt

22

<210> 89

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 89

gagagtcctg gcttttgtgg gc

22

<210> 90

<211> 15

<212> PRT

<213> Homo sapiens

GMD-102.1P US.txt

<400> 90

Gly Ser Ser Asp Leu Thr Trp Pro Pro Ala Ile Lys Leu Gly Cys
1 5 10 15

<210> 91

<211> 16

<212> PRT

<213> Homo sapiens

<400> 91

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1 5 10 15

<210> 92

<211> 15

<212> PRT

<213> Homo sapiens

<400> 92

Val Ala Pro Arg Ala Lys Ala His Lys Ser Gln Asp Ser Leu Cys
1 5 10 15

<210> 93

<211> 13

<212> PRT

<213> Homo sapiens

<400> 93

Cys Phe Arg Ser Thr Arg His Asn Phe Asn Ser Met Arg
1 5 10

<210> 94

<211> 22

<212> PRT

<213> Homo sapiens

<400> 94

Met Asn Gly Thr Tyr Asn Thr Cys Gly Ser Ser Asp Leu Thr Trp Pro
1 5 10 15

Pro Ala Ile Lys Leu Gly
20

<210> 95

<211> 14

<212> PRT

<213> Homo sapiens

<400> 95

Arg Asp Thr Ser Asp Thr Pro Leu Cys Gln Leu Ser Gln Gly
Page 78

1 5
<210> 96
<211> 22
<212> PRT
<213> Homo sapiens

<400> 96

Gly Ile Gln Glu Gly Gly Phe Cys Phe Arg Ser Thr Arg His Asn Phe
1 5 10 15

Asn Ser Met Arg Phe Pro
20

<210> 97
<211> 30
<212> PRT
<213> Homo sapiens

<400> 97

Ala Lys Glu Phe Gln Glu Ala Ser Ala Leu Ala Val Ala Pro Arg Ala
1 5 10 15

Lys Ala His Lys Ser Gln Asp Ser Leu Cys Val Thr Leu Ala
20 25 30

<210> 98
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of the Artificial Sequence: oligonucleotide

<400> 98
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<210> 99
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of the Artificial Sequence: oligonucleotide

<400> 99
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<210> 100
<211> 15
<212> PRT
<213> Homo sapiens

<400> 100

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 1 5 10 15

<210> 101

<211> 15

<212> PRT

<213> Homo sapiens

<400> 101

Asn Leu Pro Thr Pro Pro Thr Val Glu Asn Gln Gln Arg Leu Ala
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<210> 102

<211> 619

<212> PRT

<213> Homo sapiens

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 20 25 30

Val Ser Leu Lys Ile Asp Asp Asp Lys Arg Arg Asp Thr Ile Gln Arg
 35 40 45

Leu Arg Gln Cys Lys Tyr Asp Lys Lys Arg Val Ile Leu Lys Asp Leu
 50 55 60

Lys His Asn Asp Gly Asn Phe Thr Glu Lys Gln Lys Ile Glu Leu Asn
 65 70 75 80

Lys Leu Leu Gln Ile Asp Tyr Tyr Asn Leu Thr Lys Phe Tyr Gly Thr
 85 90 95

Val Lys Leu Asp Thr Met Ile Phe Gly Val Ile Glu Tyr Cys Glu Arg
 100 105 110

Gly Ser Leu Arg Glu Val Leu Asn Asp Thr Ile Ser Tyr Pro Asp Gly
 115 120 125

Thr Phe Met Asp Trp Glu Phe Lys Ile Ser Val Leu Tyr Asp Ile Ala
 130 135 140

Lys Gly Met Ser Tyr Leu His Ser Ser Lys Thr Glu Val His Gly Arg
 145 150 155 160

Leu Lys Ser Thr Asn Cys Val Val Asp Ser Arg Met Val Val Lys Ile
 165 170 175

Thr Asp Phe Gly Cys Asn Ser Ile Leu Pro Pro Lys Lys Asp Leu Trp
 180 185 190

Thr Ala Pro Glu His Leu Arg Gln Ala Asn Ile Ser Gln Lys Gly Asp
 195 200 205

Val Tyr Ser Tyr Gly Ile Ile Ala Gln Glu Ile Ile Leu Arg Lys Glu
 210 215 220

Thr Phe Tyr Thr Leu Ser Cys Arg Asp Arg Asn Glu Lys Ile Phe Arg
 225 230 235 240

Val Glu Asn Ser Asn Gly Met Lys Pro Phe Arg Pro Asp Leu Phe Leu
 245 250 255

Glu Thr Ala Glu Glu Lys Glu Leu Glu Val Tyr Leu Leu Val Lys Asn
 260 265 270

Cys Trp Glu Glu Asp Pro Glu Lys Arg Pro Asp Phe Lys Lys Ile Glu
 275 280 285

Thr Thr Leu Ala Lys Ile Phe Gly Leu Phe His Asp Gln Lys Asn Glu
 290 295 300

Ser Tyr Met Asp Thr Leu Ile Arg Arg Leu Gln Leu Tyr Ser Arg Asn
 305 310 315 320

Leu Glu His Leu Val Glu Glu Arg Thr Gln Leu Tyr Lys Ala Glu Arg
 325 330 335

Asp Arg Ala Asp Arg Leu Asn Phe Met Leu Leu Pro Arg Leu Val Val
 340 345 350

Lys Ser Leu Lys Glu Lys Gly Phe Val Glu Pro Glu Leu Tyr Glu Glu
 355 360 365

Val Thr Ile Tyr Phe Ser Asp Ile Val Gly Phe Thr Thr Ile Cys Lys
 370 375 380

Tyr Ser Thr Pro Met Glu Val Val Asp Met Leu Asn Asp Ile Tyr Lys
 385 390 395 400

Ser Phe Asp His Ile Val Asp His His Asp Val Tyr Lys Val Glu Thr
 Page 81

Ile Gly Asp Ala Tyr Met Val Ala Ser Gly Leu Pro Lys Arg Asn Gly
420 425 430

Asn Arg His Ala Ile Asp Ile Ala Lys Met Ala Leu Glu Ile Leu Ser
435 440 445

Phe Met Gly Thr Phe Glu Leu Glu His Leu Pro Gly Leu Pro Ile Trp
450 455 460

Ile Arg Ile Gly Val His Ser Gly Pro Cys Ala Ala Gly Val Val Gly
465 470 475 480

Ile Lys Met Pro Arg Tyr Cys Leu Phe Gly Asp Thr Val Asn Thr Ala
485 490 495

Ser Arg Met Glu Ser Thr Gly Leu Pro Leu Arg Ile His Val Ser Gly
500 505 510

Ser Thr Ile Ala Ile Leu Lys Arg Thr Glu Cys Gln Phe Leu Tyr Glu
515 520 525

Val Arg Gly Glu Thr Tyr Leu Lys Gly Arg Gly Asn Glu Thr Thr Tyr
530 535 540

Trp Leu Thr Gly Met Lys Asp Gln Lys Phe Asn Leu Pro Thr Pro Pro
545 550 555 560

Thr Val Glu Asn Gln Gln Arg Leu Gln Ala Glu Phe Ser Asp Met Ile
565 570 575

Ala Asn Ser Leu Gln Lys Arg Gln Ala Ala Gly Ile Arg Ser Gln Lys
580 585 590

Pro Arg Arg Val Ala Ser Tyr Lys Lys Gly Thr Leu Glu Tyr Leu Gln
595 600 605

Leu Asn Thr Thr Asp Lys Glu Ser Thr Tyr Phe
610 615

<210> 103

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 103
gctggtaact atcttcctgc 20

<210> 104
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of the Artificial Sequence: oligonucleotide

<400> 104
gaagaatggt gtccagaggt 20

<210> 105
<211> 15
<212> PRT
<213> Homo sapiens

<400> 105
Leu Ile Asn Lys Val Pro Leu Pro Val Asp Lys Leu Ala Pro Leu
1 5 10 15

<210> 106
<211> 15
<212> PRT
<213> Homo sapiens

<400> 106
Ser Glu Ala Val Lys Lys Leu Leu Glu Ala Leu Ser His Leu Val
1 5 10 15

<210> 107
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of the Artificial Sequence: oligonucleotide

<400> 107
tgttttcaac taccaggggc 20

<210> 108
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of the Artificial Sequence: oligonucleotide

<400> 108

tggttgcttt ggcagagtcc

20

<210> 109

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 109

gaggcagagt tcaggcttca ccga

24

<210> 110

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: oligonucleotide

<400> 110

tggttgcttt ggcagagtcc

20

<210> 111

<211> 56

<212> PRT

<213> Homo sapiens

<400> 111

Thr	Gly	Met	Asp	Met	Trp	Ser	Thr	Gln	Asp	Leu	Tyr	Asp	Asn	Pro	Val
1				5				10						15	

Thr	Ser	Val	Phe	Gln	Tyr	Glu	Gly	Leu	Trp	Arg	Ser	Cys	Val	Arg	Gln
			20					25					30		

Ser	Ser	Gly	Phe	Thr	Glu	Cys	Arg	Pro	Tyr	Phe	Thr	Ile	Leu	Gly	Leu
		35					40					45			

Pro	Ala	Met	Leu	Gln	Ala	Val	Arg
	50					55	

<210> 112

<211> 53

<212> PRT

<213> Homo sapiens

<400> 112

Asp	Gln	Trp	Ser	Thr	Gln	Asp	Leu	Tyr	Asn	Asn	Pro	Val	Thr	Ala	Val
1				5					10					15	

Phe Asn Tyr Gln Gly Leu Trp Arg Ser Cys Val Arg Glu Ser Ser Gly
 20 25 30

Phe Thr Glu Cys Arg Gly Tyr Phe Thr Leu Leu Gly Leu Pro Ala Met
 35 40 45

Leu Gln Ala Val Arg
 50

<210> 113
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 113

Ser Thr Gln Asp Leu Tyr Asn Asn Pro Val Thr Ala Val Phe
 1 5 10

<210> 114
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 114

Asp Met Trp Ser Thr Gln Asp Leu Tyr Asp Asn Pro
 1 5 10

<210> 115
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 115

Cys Arg Pro Tyr Phe Thr Ile Leu Gly Leu Pro Ala
 1 5 10

<210> 116
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 116

Thr Asn Phe Trp Met Ser Thr Ala Asn Met Tyr Thr Gly
 1 5 10

<210> 117
 <211> 816
 <212> DNA
 <213> Homo sapiens

<400> 117

gccaggatca tgtccaccac cacatgccaa gtggtggcgt tcctcctgtc catcctgggg

60

GMD-102.1P US.txt

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ctggccggct gcatcgcggc caccgggatg gacatgtgga gcacccagga cctgtacgac 120
aaccccgtca cctccgtgtt ccagtacgaa gggctctgga ggagctgcgt gaggcagagt 180
tcaggcttca ccgaatgcag gccctatttc accatcctgg gacttccagc catgctgcag 240
gcagtgcgag ccctgatgat cgtaggcata gtcctgggtg ccattggcct cctggtatcc 300
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acactgacct ccgggatcat gttcattgtc tcaggctctt gtgcaattgc tggagtgtct 420
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atgggtggga tggatgcagac tggtcagacc aggtacacat ttggtgcggc tctgttcgtg 540
ggctgggtcg ctggaggcct cacactaatt ggggggtgtga tgatgtgcat cgcctgccgg 600
ggcctggcac cagaagaaac caactacaaa gccgtttctt atcatgcctc aggccacagt 660
gttgccatac agcctggagg ctcaaggcc agcactggct ttgggtccaa caccaaaaac 720
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cacgactatg tgtaatgctc taagacctct cagcac 816

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<210> 118
 <211> 261
 <212> PRT
 <213> Homo sapiens

<400> 118

Met Ser Thr Thr Thr Cys Gln Val Val Ala Phe Leu Leu Ser Ile Leu
1 5 10 15

Gly Leu Ala Gly Cys Ile Ala Ala Thr Gly Met Asp Met Trp Ser Thr
20 25 30

Gln Asp Leu Tyr Asp Asn Pro Val Thr Ser Val Phe Gln Tyr Glu Gly
35 40 45

Leu Trp Arg Ser Cys Val Arg Gln Ser Ser Gly Phe Thr Glu Cys Arg
50 55 60

Pro Tyr Phe Thr Ile Leu Gly Leu Pro Ala Met Leu Gln Ala Val Arg
65 70 75 80

Ala Leu Met Ile Val Gly Ile Val Leu Gly Ala Ile Gly Leu Leu Val
85 90 95

Ser Ile Phe Ala Leu Lys Cys Ile Arg Ile Gly Ser Met Glu Asp Ser
100 105 110

GMD-102.1P US.txt

Ala Lys Ala Asn Met Thr Leu Thr Ser Gly Ile Met Phe Ile Val Ser
115 120 125

Gly Leu Cys Ala Ile Ala Gly Val Ser Val Phe Ala Asn Met Leu Val
130 135 140

Thr Asn Phe Trp Met Ser Thr Ala Asn Met Tyr Thr Gly Met Gly Gly
145 150 155 160

Met Val Gln Thr Val Gln Thr Arg Tyr Thr Phe Gly Ala Ala Leu Phe
165 170 175

Val Gly Trp Val Ala Gly Gly Leu Thr Leu Ile Gly Gly Val Met Met
180 185 190

Cys Ile Ala Cys Arg Gly Leu Ala Pro Glu Glu Thr Asn Tyr Lys Ala
195 200 205

Val Ser Tyr His Ala Ser Gly His Ser Val Ala Tyr Lys Pro Gly Gly
210 215 220

Phe Lys Ala Ser Thr Gly Phe Gly Ser Asn Thr Lys Asn Lys Lys Ile
225 230 235 240

Tyr Asp Gly Gly Ala Arg Thr Glu Asp Glu Val Gln Ser Tyr Pro Ser
245 250 255

Lys His Asp Tyr Val
260

<210> 119
<211> 227
<212> DNA
<213> Homo sapiens

<400> 119
gccaggatca tgtccaccac cacatgccaa gtggtggcgt tcctcctgtc catcctgggg 60
ctggccggct gcatcgcggc caccgggatg gacatgtgga gcaccaggga cctgtacgac 120
aaccctgtca cctccgtggt ccagtacgaa gggctctgga ggagctgcgt gaggcagagt 180
tcaggcttca ccgaatgcag gccctatttc accatcctgg gacttcc 227

<210> 120
<211> 69
<212> PRT
<213> Homo sapiens

<400> 120

Met Ser Thr Thr Thr Cys Gln Val Val Ala Phe Leu Leu Ser Ile Leu
Page 87

1 5 15

Gly Leu Ala Gly Cys Ile Ala Ala Thr Gly Met Asp Met Trp Ser Thr
20 25 30

Gln Asp Leu Tyr Asp Asn Pro Val Thr Ser Val Phe Gln Tyr Glu Gly
35 40 45

Leu Trp Arg Ser Cys Val Arg Gln Ser Ser Gly Phe Thr Glu Cys Arg
50 55 60

Pro Tyr Phe Thr Ile
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<210> 121
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of the Artificial Sequence: oligonucleotide

<400> 121
aatgagagga aagagaaaac 20

<210> 122
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of the Artificial Sequence: oligonucleotide

<400> 122
atggtagaag agtaggcaat 20

<210> 123
<211> 15
<212> PRT
<213> Homo sapiens

<400> 123
Glu Lys Trp Asn Leu His Lys Arg Ile Ala Leu Lys Met Val Cys
1 5 10 15

<210> 124
<211> 11
<212> PRT
<213> Homo sapiens

<400> 124

Cys Leu Gly Phe Asn Phe Lys Glu Met Phe Lys
 1 5 10

<210> 125
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of the Artificial Sequence: oligonucleotide

<400> 125
 taatgatgaa ccctacactg agc 23

<210> 126
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of the Artificial Sequence: oligonucleotide

<400> 126
 atggacaaat gccctacctt 20

<210> 127
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of the Artificial Sequence: oligonucleotide

<400> 127
 agtgctggaa ggatgtgcgt gt 22

<210> 128
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of the Artificial Sequence: oligonucleotide

<400> 128
 ttgaggtggt tggtgggttt 20

<210> 129
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of the Artificial Sequence: oligonucleotide

<400> 129
 agatgtgctg aggctgtaga 20

<210> 130
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of the Artificial Sequence: Oligonucleotide

<400> 130
 atgaagggtg attatttgag 20

<210> 131
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of the Artificial Sequence: Oligonucleotide

<400> 131
 agccgcatac tcccttaccc tct 23

<210> 132
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of the Artificial Sequence: Oligonucleotide

<400> 132
 gcagcagccc aaacaccaca 20

<210> 133
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of the Artificial Sequence: Oligonucleotide

<400> 133
 ctgagccgag aggtggaatc 20

<210> 134
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of the Artificial Sequence: Oligonucleotide

<400> 134

ctctctcgct tacactggaa

20

<210> 135

<211> 14

<212> PRT

<213> Homo sapiens

<400> 135

Gln	Trp	Gln	Val	Phe	Gly	Pro	Asp	Lys	Pro	Val	Gln	Ala	Leu
1				5					10				

<210> 136

<211> 15

<212> PRT

<213> Homo sapiens

<400> 136

Ala	Lys	Trp	Lys	Gly	Pro	Gln	Gly	Gln	Asp	Leu	Ser	Thr	Asp	Ser
1				5					10					15

<210> 137

<211> 32

<212> PRT

<213> Homo sapiens

<400> 137

Asn	Met	Leu	Val	Thr	Asn	Phe	Trp	Met	Ser	Thr	Ala	Asn	Met	Tyr	Thr
1				5					10					15	

Gly	Met	Gly	Gly	Met	Val	Gln	Thr	Val	Gln	Thr	Arg	Tyr	Thr	Phe	Gly
			20					25					30		